

Curriculum Vitae—Thomas P. Intrator

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Education

1982	Ph.D - Experimental Plasma Physics , Univ. of Colorado-Boulder, Dept. Physics
1981	M.S. - Nuclear Physics , Univ. of Colorado-Boulder, Dept. Physics
1977	B.S. - Physics , State University of New York at Albany -Dept. Physics
1974	Diplôme des Langues et Lettres , Université de Grenoble, France
1971	University of Denver - art, ceramics, pottery

Employment summary

Los Alamos National Laboratory	(1999-present)
University of Wisconsin, Dept Physics	(1998-1999)
University of Wisconsin, Dept Engineering Physics	(1982-1999)
University of Colorado – Boulder (graduate research assistant)	(1977-1981)

Professional activities

Los Alamos National Laboratory: physics guidance for Field Reversed Configuration experiments, basic plasma physics with applications to solar, space, and astrophysics, engineering for pulsed power systems, coordination of large student program, conception and construction of basic plasma physics experiments, mentor students and post docs.

University of Wisconsin: taught engineering and physics classes, design/build PEGASUS low aspect ratio spherical tokamak, Alfvén Wave Current Drive on Phaedrus-T tokamak, radio frequency power components and antennas, magnetic diagnostics to wave measurements, non linear wave particle interactions, basic sheath and probe studies.

Awards

1987	Visiting scientist AT&T Bell Laboratories, Murray Hill NJ
1989	CNRS visiting professor, Univ Grenoble, France
2001	Physics Division student mentor award LANL
2002	MIT Undergraduate Practice Opportunities Program excellence award
2003	MIT Undergraduate Practice Opportunities Program excellence award

Selected publications

85 refereed papers with 800 citations (Thomson ISI 2004), editor of book.

1. T. Intrator, S. Y. Zhang, J. H. Degnan, I. Furno, C. Grabowski, S. C. Hsu, E. L. Ruden, P. G. Sanchez, J. M. Taccetti, and M. Tuszewski, "A high density field reversed configuration (FRC) target for magnetized target fusion: first internal profile measurements of a high density FRC.", *Physics of Plasmas*, vol. 11, pp. 2580-2585, 2004.
2. Furno, T. Intrator, E. Torbert, C. Carey, M. D. Cash, J. K. Campbell, W. J. Fienup, C. A. Werley, G. A. Wurden, and G. Fiksel, "Reconnection scaling experiment: a new device for three-dimensional magnetic reconnection studies," *Review of Scientific Instruments*, vol. 74, pp. 2324, 2003.
3. Intrator T., Cho M. H., Wang E. Y., Hershkowitz N., Diebold D. and Dekock J., *The virtual cathode as a transient double sheath*, *Journal of Applied Physics*, **64**, 2927, (1988)
4. Intrator T., Menard J. and Hershkowitz N., *Multiple magnetized double-layers in the laboratory*, *Physics of Fluids B-Plasma Physics*, **5**, 806, (1993)
5. Wukitch S., Vukovic M., Breun R., Brouchous D., Diebold D. A., Doczy M., Elfimov A., Edgell D., Hershkowitz N., Intrator T., Kishinevsky M., Litwin C., Moroz P. and Probert P., *Experimental-evidence of low-frequency current drive in the phaedrus-t tokamak*, *Physical Review Letters*, **74**, 2240, (1995)